

New Zealand's
Quietest
HEAT PUMPS
...Ever!

UNIQUE
*Energy
Saving*
FEATURES

New Zealand's
Best
LOW TEMPERATURE
PERFORMANCE
...Guaranteed!

New Zealand's Quietest Heat Pumps

* The MSZ-GE25 and MSZ-GE33 are 19dB(A) when operating on their lowest fan speed (Quiet), as at 1st January 2011.



Quietly Superior



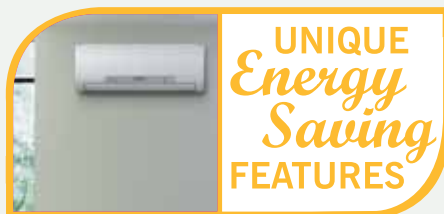
ALL YOU NEED TO KNOW...

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THE MITSUBISHI ELECTRIC ADVANTAGE

Your Guarantee...



Sound is measured using a logarithmic measurement known as decibels or dB(A). The normal range of human hearing begins at approximately 0 decibels – however a sound usually needs to reach 10 - 15 dB(A) before it is detected (this is the sound level of someone breathing normally).

The loudness of sound increases by 52% for every additional 6 dB(A) or doubles for every 10 dB(A). So a Heat Pump that produces 25 dB(A) of sound will be one and half times louder than a Heat Pump that produces 19 dB(A). An increase of just 1 dB(A) equates to an increase in sound intensity of 26%!

Mitsubishi Electric has a long-standing reputation for manufacturing the Quietest Heat Pumps / Air Conditioners available. As even a small dB(A) increase will impact the sound level you experience, Mitsubishi Electric strives to continuously improve the sound levels of their Heat Pumps. The Mitsubishi Electric MSZ-GE25VA and MSZ-GE33VA Inverter High Wall indoor units are New Zealand's Quietest Heat Pumps at an amazingly low 19 dB(A) on their lowest fan speed (Quiet). Mitsubishi Electric's quiet fan speed is designed to ensure you receive the comfort levels you desire while experiencing the quietest sound levels available. We understand that you want to feel the warmth not hear it!



Mitsubishi Electric aims to provide the most energy efficient Heat Pump Systems by combining high energy efficiency with unique energy saving features.

The MSZ-GE25/33/42/50/60/71/80, MSZ-FB25/35/50, MFZ-KA25 & SLZ-KA25 have all been awarded the ENERGY STAR mark signaling that they meet the strict energy efficiency guidelines.



To read about the Mitsubishi Electric Unique Energy Saving Features please view:

i-see Sensor : MSZ-FB Deluxe High Wall, pages 7-8.

i-save Mode : MSZ-GE High Wall, pages 4-6 / MFZ-KA Floor Console, pages 9-10.

Econo Cool : MSZ-GE High Wall, pages 4-6 / MSZ-FB Deluxe High Wall, pages 7-8 / MFZ-KA Floor Console, pages 9-10.



Inverter Technology for even more savings! Mitsubishi Electric Inverter technology offers even more energy savings by matching compressor speed output to your indoor heating or cooling load conditions. Energy savings of up to 30% are possible when compared to fixed speed. Mitsubishi Electric Inverter models also have the capability to run above rated capacity for quicker achievement of design controlled environment conditions under adverse outdoor conditions.



Engineered for superior heating, Mitsubishi Electric Heat Pumps are designed to keep you warm in even the coldest conditions. In fact, we guarantee our low temperature performance. All Mitsubishi Electric Heat Pumps have guaranteed heating performance right down to -15°C to ensure adequate heating on even the coldest nights or mornings when you really need it.

All Mitsubishi Electric Heat Pumps are fitted with intelligent defrost strategies to ensure minimal time spent defrosting when the temperature drops. When the outside temperature drops below zero all heat pumps must perform a “defrost cycle” to remove ice build up on their outdoor coils. Mitsubishi Electric has developed an advanced defrost strategy to enable more efficient operation in extreme conditions. Mitsubishi Electric Heat Pumps utilise a Fuzzy Logic software program, a form of Artificial Intelligence, that typically lasts between 3 to 5 minutes. This program measures and records temperatures and running times then uses this data to initiate the defrost cycle only when required.

HYPERCORE® High Performance Heat Pumps

If you live in an area with high humidity and low temperatures you may need to consider upgrading to a HyperCore® High Performance Heat Pump. HyperCore® has all of the technology hidden in the standard Mitsubishi Electric Inverter Heat Pump but additionally, is the ONLY heat pump available in New Zealand that guarantees it's full rated capacity at all temperatures from +7°C to -15°C ~ and all temperatures in between. So no matter how cold it is in your region ~ +2°C, or -2°C or even -15°C ~ HyperCore® Heat Pumps will not lower their heating capacity regardless of the outdoor temperature. Ask for a HyperCore® brochure or visit www.hypercore.co.nz today.

COMFORT FOR ALL OF NEW ZEALAND.

Relax in comfort from burning summer days or freezing cold nights with up to four times the energy efficiency of conventional heating appliances. Mitsubishi Electric cuts your heating costs and your budget.

An extensive feature-rich range ensures there is a model to meet your needs and our contemporary styling will compliment any interior. All this with the whisper quietness you have come to expect from Mitsubishi Electric.

Everyone deserves a home where they can rely on year round superior comfort and Mitsubishi Electric is able to make that possible.



Smarter Heating

Whether you're looking for a new Heat Pump or wanting to learn how to use your Heat Pump more efficiently www.smarterheating.co.nz has the answer.

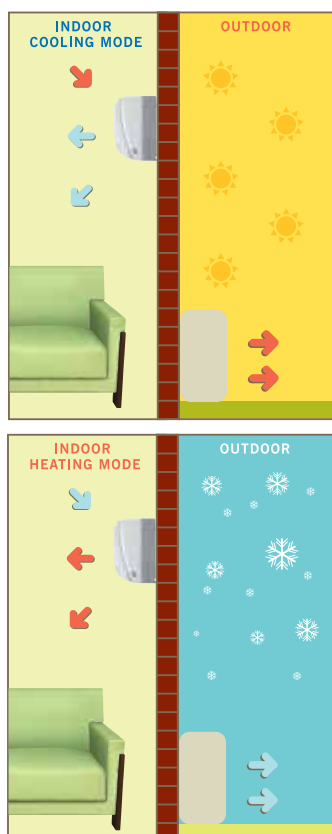
This online site was specifically developed by Mitsubishi Electric to answer the most common Heat Pump questions so that consumers can make truly informed decisions.

HOW DO HEAT PUMPS WORK?

It's actually quite simple. Mitsubishi Electric Heat Pumps work in much the same way as your refrigerator except there are two separate, but integral, parts to the system. There is an outdoor unit housing the compressor that is similar to the exterior back of your fridge, this extracts freely available heat energy from the outside air and transfers or "pumps" it back inside your home. The result – you feel warm inside.

During the summer the Heat Pump reverses this operation, extracting heat energy from the air inside your home and pumping it outside. The end effect - you feel cooler inside!

For more information visit:
www.smarterheating.co.nz

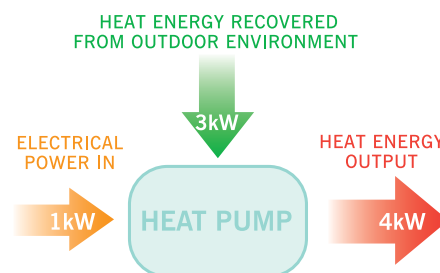


HEAT PUMPS OFFER MAXIMUM ENERGY EFFICIENCY.

EECA (Energy Efficiency Conservation Authority) has identified Heat Pumps as one of the most energy efficient forms of heating available in New Zealand. Heat Pumps do not create heat; they simply move available heat from one place to another. The little electrical energy that is needed is predominantly used to run the compressor.

Typically, 1kW of electrical energy is required to "pump" up to 4kW of available heat energy from the outdoor environment to a specific area inside

the home. In other words, the Heat Pump transfers a lot more available energy than it actually consumes. With energy efficiencies of up to 400%, this is why Heat Pumps are promoted by EECA as one of the most energy efficient forms of heating available to New Zealanders. This is often represented as COP (Co-efficient Of Performance). The ratio of kW input to kW output. In the example above the COP would be 4.



Inverter MSZ-GE Series

HIGH WALL

New Zealand's Quietest Heat Pumps* Unique Energy Saving Features New Programmable 7-Day Timer

From
19dBA*

The new MSZ-GE Series features New Zealand's two quietest Heat Pumps at just 19 dBA* as well as industry leading quietness across all models. Increased energy efficiency across the range combined with new energy saving features including "i-save" mode and Econo Cool ensure the highest level of energy efficiency without compromising on performance or quality.

The MSZ-GE60/71/80 also include a fully programmable 7-Day timer in-built into the handheld remote to allow up to four pattern settings for each day of the week. This control ensures your heat pump fits around your lifestyle, saving both time and money.

* The MSZ-GE25 and MSZ-GE33 are 19dB(A) when operating on their lowest fan speed (Quiet), as at 1st September 2010.



MSZ-GE25~50VA
Dimensions (W x D x H): 798 x 232 x 295mm



MSZ-GE60~80VA
Dimensions (W x D x H): 1,100 x 238 x 325mm

MSZ-GE Model Range

Full specifications on page 15



MSZ-GE25VA (MSZ-GE25VA + MUZ-GE25VA)

Cooling Capacity: 2.5 (1.1~3.5) kW
Heating Capacity: 3.2 (1.3~4.5) kW



MSZ-GE33VA (MSZ-GE33VA + MUZ-GE33VA)

Cooling Capacity: 3.3 (1.4~3.9) kW
Heating Capacity: 4.0 (1.4~4.8) kW



MSZ-GE42VA (MSZ-GE42VA + MUZ-GE42VA)

Cooling Capacity: 4.2 (0.9~4.8) kW
Heating Capacity: 5.4 (1.4~6.0) kW



MSZ-GE50VA (MSZ-GE50VA + MUZ-GE50VA)

Cooling Capacity: 5.0 (1.4~5.4) kW
Heating Capacity: 5.8 (1.4~7.2) kW



MSZ-GE60VA (MSZ-GE60VA + MUZ-GE60VA)

Cooling Capacity: 6.0 (1.5~7.5) kW
Heating Capacity: 6.8 (2.0~9.3) kW



MSZ-GE71VA (MSZ-GE71VA + MUZ-GE71VA)

Cooling Capacity: 7.1 (2.4~8.7) kW
Heating Capacity: 8.1 (2.2~9.9) kW



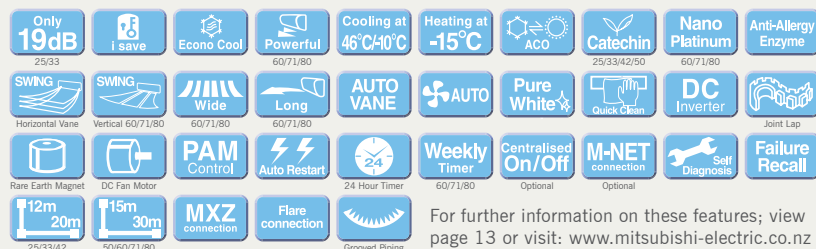
MSZ-GE80VA (MSZ-GE80VA + MUZ-GE80VA)

Cooling Capacity: 8.0 (2.4~9.2) kW
Heating Capacity: 9.0 (2.2~11.1) kW



Features

HEAT PUMP



For further information on these features; view page 13 or visit: www.mitsubishi-electric.co.nz

Outdoor Units



MUZ-GE25~42VA
Dimensions (WxDxH)
800 x 285 x 550mm

MUZ-GE50~80VA
Dimensions (WxDxH)
840 x 330 x 880mm
GE50 (H) : 850mm

Inverter MSZ-GE Series

HIGH WALL

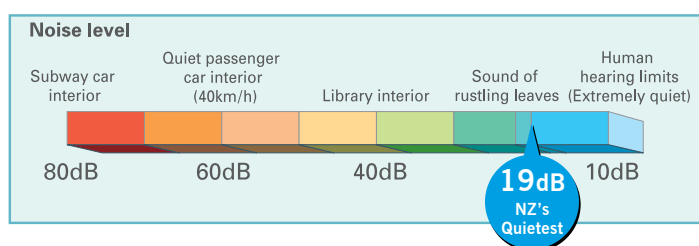
New Zealand's Quietest Heat Pumps

Only
19dB
MSZ-GE25/33

The new MSZ-GE Series features the two quietest Heat Pumps available in New Zealand.

Mitsubishi Electric has introduced a new fan speed rating system. The new lowest setting is called 'Quiet' fan speed and is the equivalent to low fan speed in the previous MSZ-GA/GB Series. This new rating system has allowed Mitsubishi Electric to produce even quieter Heat Pumps, in fact the MSZ-GE25 and MSZ-GE33 are New Zealand's Quietest Heat Pumps at just 19 dB(A) on their lowest fan speed (Quiet).

This means even on Quiet fan speed you can be assured these heat pumps will not compromise on home comfort.



MODEL	GE25	GE33	GE42	GE50	GE60	GE71	GE80
COOL	19dB(A)	19dB(A)	26dB(A)	28dB(A)	29dB(A)	30dB(A)	30dB(A)
HEAT	19dB(A)	19dB(A)	26dB(A)	28dB(A)	29dB(A)	30dB(A)	30dB(A)

Sound Levels rated at lowest fan speed.

Higher Energy Efficiency

The combination of cutting-edge inverter technologies and a highly efficient heat exchanger allows the MSZ-GE Series to produce remarkable energy efficiencies. Compared to its predecessor the MSZ-GA/GB Series, the MSZ-GE Series has improved EER & COP ratings across all models.

The entire MSZ-GE Series have gained the ENERGY STAR™ Mark showing that they achieve the highest levels of energy efficiency. You can rest assured the MSZ-GE Series will provide the highest level of energy efficiency without compromising on performance or quality.

ENERGY RATING	6.0	6.0	5.5	4.5	6.0	5.5	4.5
MODEL	GE25	GE33	GE42	GE50	GE60	GE71	GE80
COOL	2.5 kW 4.46 EER	3.3 kW 3.63 EER	4.2 kW 3.33 EER	5.0 kW 3.05 EER	6.0 kW 3.40 EER	7.1 kW 3.33 EER	8.0 kW 3.12 EER
HEAT	3.2 kW 4.38 COP	4.0 kW 3.88 COP	5.4 kW 3.51 COP	5.8 kW 3.52 COP	6.8 kW 3.84 COP	8.1 kW 3.83 COP	9.0 kW 3.54 COP



ENERGY STAR is the global mark of energy efficiency. All models in the MSZ-GE Series have been awarded the ENERGY STAR signaling that they meet strict energy efficiency guidelines.

Pure White, Flat Panel Styling

The understated, clean lines of the new pure white finished MSZ-GE Series will fit seamlessly into any interior. The compact sizing of the MSZ-GE25/33/42/50 at only 798mm allow a wide range of applications from small to even larger rooms.



Healthy Catechin Filter (MSZ-GE25/33/42/50)

Catechin is a Bioflavonoid that is found in green tea. It has both antiviral and antioxidant qualities and also offers excellent deodorising characteristics. Because of these unique properties Mitsubishi Electric has incorporated this compound in its filters for the MSZ-GE25/33/42/50, to not only improve air quality but also help prevent the spread of airborne bacteria and viruses in the room. The filter can easily be removed and, when washed regularly, will deodorise effectively for over 10 years.



Nano Platinum Filter (MSZ-GE60/71/80)

The Nano Platinum Filter incorporates platinum nanoparticles into the filter material, providing semi-permanent antibacterial and deodorising properties. The size of the three-dimensional surface has been increased, enlarging the filter capture area. These features give the Nano Platinum Filter better dust collection performance than conventional filters. Not only does it improve air quality but it also eliminates bacteria and viruses. This air filter has a semi-permanent lasting effect even after being washed in water.



Anti Allergy Enzyme Filter

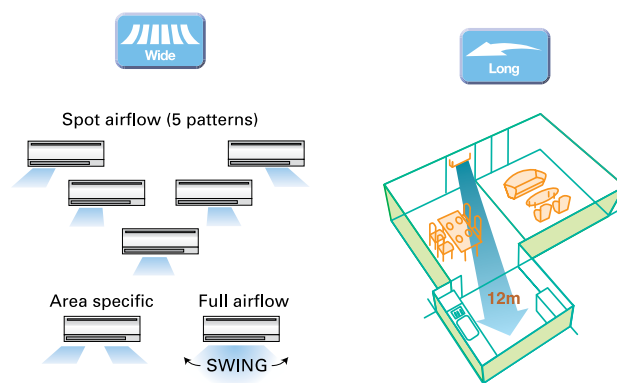
To combat allergens, Mitsubishi Electric offers an Anti Allergy Enzyme Filter with the power to remove harmful microbes such as bacteria*, viruses, dust mites, and pollen. The enzymes destroy any germs caught in the filter, preventing them from working their way further inside the system.

* Confirmed by the Japan Spinners Inspecting Foundation

Wide and Long Airflow (MSZ-GE60/71/80)

The Wide and Long Airflow Modes allow the airflow direction to be adjusted, ensuring every corner of the room is comfortable.

These modes are simply activated at the touch of a button on your remote controller. The Long Mode extends airflow by 12m to reach even the furthest point of large living rooms or enables kitchens to be reached in an open plan environment.



Guaranteed Heating Performance to -15°C

Not all heat pumps perform when they are needed most. Our range is designed with heating in mind and is guaranteed to effectively provide heating on cold nights or mornings when you really need it most.



New 7-Day Programmable Timer

(MSZ-GE60/71/80)

Wake up and come home to optimal temperatures whilst conserving energy!

The new MSZ-GE60/71/80 High Wall Inverter Heat Pumps feature a fully programmable timer that allows heat pump operation to match your lifestyle. The 7-Day Timer function allows up to four settings (per 24-hour period) including Start/Stop operation and Temperature changes. This breakthrough ensures higher comfort levels while the home is occupied saving both time and money.

Turning a heat pump on and off typically uses the most energy because the room must be heated from a very low temperature. The temptation is to turn the heat pump onto a high temperature setting like 27°C to heat the room up faster. However this will not heat your room faster but will actually consume more energy as the heat pump works to reach the temperature. Having your heat pump start up before you wake or return home means you will enjoy the warmth provided by your Mitsubishi Electric Heat Pump in the most efficient way possible.

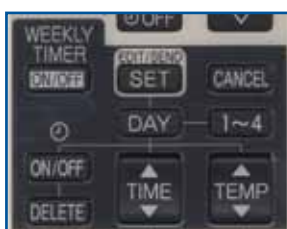
Most air conditioning systems come with a 24-hour timer on the remote controller. This means you can only set the system to automatically turn on and then off once within a 24-hour period. This needs to be manually reactivated each time. The Mitsubishi Electric 7-Day Timer eliminates the need to reset the timer daily.

Example - Weekday Setting:

- **6am** : The temperature automatically changes to 21°C.
- **8am** : The heat pump turns off while the home is unoccupied.
- **5pm** : The heat pump turns back on and with the temperature set at 21°C, this warms the home in preparation for your return home.
- **11pm** : The temperature reduces to 18°C, while you are sleeping for energy saving operation.

Example - Weekend Setting:

- **7am** : The temperature automatically changes to 21°C .
- **9am** : The temperature reduces to 18°C, as the outside temperature warms up.
- **5pm** : The temperature increases to 21°C as outside air temperature cools down.
- **11pm** : The temperature reduces to 18°C, while you are sleeping for energy saving operation.



The Smarter Heating Guide

To learn how to program your 7-Day Timer as well as tips on using your Heat Pump in the most efficient way go to:

www.smarterheating.co.nz

Auto Change Over Function

When the desired temperature is reached, the system automatically switches between cooling and heating modes. The selected temperature in the room can be controlled without user intervention. For example, when it's frosty in the early morning the unit will operate on heating to maintain a set point of 21°C in heating mode. When the sun rises the unit can switch to cooling to maintain the 21°C set temperature.

Powerful Mode (MSZ-GE60/71/80)



The automatic, one-touch Powerful Mode ensures faster cooling and heating. It produces more airflow than the "Super High" fan speed, cooling/heating the room in less than 15 minutes, then automatically returning to the regular setting.

Unique Energy Saving Features

"i-save" Mode



With this function, settings including temperature, fan speed, and airflow direction for both cooling and heating operation can be saved simultaneously. This function can be used to quickly return to your preferred settings. The "i-save" mode can be used as an energy saving function. If the stored "i-save" settings are 2-3°C cooler than the normal temperature setting when activated the room will be set to the cooler temperature. When the room is reoccupied the button can be pressed to return to the original settings.

The lowest set temperature in normal heating operation is 16°C. The unique "i-save" mode allows for a set back temperature of 10°C when maximum heating is not required, resulting in further energy savings.

Econo Cool



This energy saving function can be selected in cooling mode. The temperature is automatically set to 2°C higher, while the airflow is switched to a swing flow. This airflow pattern feels cooler than constant airflow allowing reduced energy consumption.



Inverter MSZ-FB Series

DELUXE HIGH WALL

Advanced Energy Saving “i-see Temperature Sensor” Plasma Duo Filter System

Introducing the state-of-the-art range of Mitsubishi Electric Deluxe Inverter Heat Pumps featuring the “i-see Sensor”. This advanced sensing technology reduces energy consumption by maintaining air temperature and controlling air movement to prevent excessive heating and cooling as well as unnecessary operation.

This range is also specifically designed to combat and reduce common household allergens and unpleasant odours, providing the optimal air quality that is vital for asthma and allergy sufferers.



The new advanced energy saving “i-see Sensor” searches out temperature differences and directs heat where you really need it.



Dimensions (W x D x H): 798 x 257 x 295mm

MSZ-FB Model Range

Full specifications on page 16

MSZ-FB25VA (MSZ-FB25VA + MUZ-FB25VA)

Cooling Capacity: 2.5 (1.1~3.5) kW
Heating Capacity: 3.2 (1.5~5.5) kW



MSZ-FB35VA (MSZ-FB35VA + MUZ-FB35VA)

Cooling Capacity: 3.5 (1.1~4.1) kW
Heating Capacity: 4.0 (1.5~6.0) kW



MSZ-FB50VA (MSZ-FB50VA + MUZ-FB50VA)

Cooling Capacity: 5.0 (0.8~5.8) kW
Heating Capacity: 6.0 (0.9~7.8) kW



MSZ-FB35/50 available as a **HYPERCORE[®]** High Performance Heat Pump. www.hypercore.co.nz



ENERGY STAR is the global mark of energy efficiency. All models in the MSZ-FB Series have been awarded the ENERGY STAR signaling that they meet strict energy efficiency guidelines. You can rest assured these will provide the highest level of energy efficiency without compromising on performance or quality.

Features

HEAT PUMP



Optional*:
PAR-21MAA
7 Day Timer

*Requires
MAC-3371F-E



Infra Red
Remote Controller



For further information on these features; view page 13 or visit: www.mitsubishi-electric.co.nz

Outdoor Units



MUZ-FB25/35VA
Dimensions (WxDxH)
800 x 285 x 550mm

MUZ-FB50VA
Dimensions (WxDxH)
840 x 330 x 850mm



Unique Energy Saving **i-see Sensor**, Provides Efficient Temperature Control.

Conventional heat pumps can't measure factors such as radiant heat or cold draughts that can affect room temperature. Some areas may therefore be warmer or cooler than others.

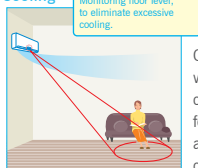
The advanced "i-see Sensor" measures room temperature at floor level as well as at the unit itself, resulting in greater temperature control. Unlike standard systems, the "i-see Sensor" automatically moves from side to side, searching out temperature disparities and directing airflow to specific areas where it is really needed.

Wide airflow of 150° from left to right (90° in cooling mode) ensures all corners of the room are kept at the optimal selected temperature. The "i-see Sensor" controls air temperature and air movement to prevent excessive heating or cooling and unnecessary operation. With "i-see Sensor" you are ensured total comfort while reducing energy wastage.

"Area Setting" - for waste-free, energy-saving heating and cooling.

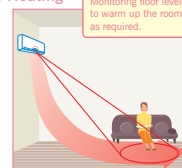
In AREA mode, efficient heating or cooling is directed where it is really needed - the right side, left side or the room as a whole. The sensor can also operate only on the selected side.

In Cooling

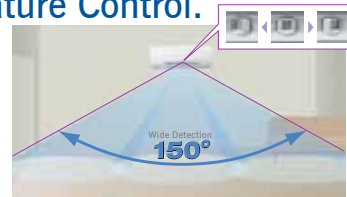


Cold air tends to drop to floor level, which is often the cause of over cooling. The i-see Sensor detects this foot-level temperature and adjusts the air outlet temperature to prevent over cooling.

In Heating

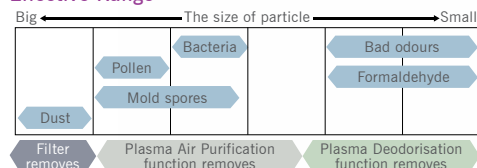


Warm air tends to rise up from the floor level, which often prevents that zone from warming up. The i-see Sensor detects this foot-level temperature and adjusts the air outlet flow to provide optimal temperatures.



Plasma Duo Filter Systems

Effective Range



Plasma Deodorisation

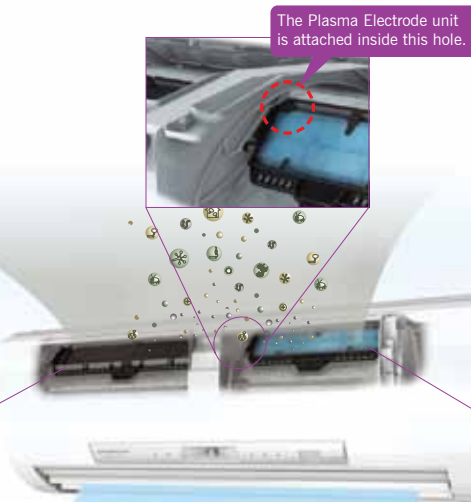
The Platinum Catalyst Deodorising Filter uses tiny holes as small as 1 nanometer on a surface of approximately 3,000m² to capture small odour-laden substances in the air and break them down using ozone generated in the Plasma Electrode Unit and the Platinum Catalyst contained in the filter.

Nearly twice the deodorising speed compared to previous model.

Plasma Deodorising Filter mechanism



- 1 Plasma Electrode Unit produces ozone.
- 2 Particles of odour releasing substances are absorbed.
- 3 Particles of odour releasing substances are decomposed by ozone.



Plasma Electrode Unit

A plasma electrode unit is mounted inside the product. Electro-discharge is used to generate ozone & plasma. The combination of ozone & plasma and two special filters makes a dynamic plasma air cleaning function.

Plasma Air Purification

An Anti-allergen Electric Enzyme Filter utilises the combined power of static electricity charged in the filter and the plasma generated in the Plasma Electrode Unit to capture bacteria, pollen and other allergens in the air, which are then neutralised with the enzyme in the filter.

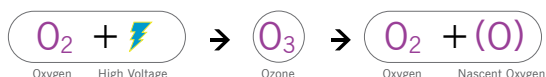
Plasma Air Purifying Filter mechanism



Self Cleaning "Ozone Shower"

To ensure the coil is clean and free from impurities, the indoor coil will be automatically cleaned with Ozone after the unit has been operating in cooling mode.

Ozone (O₃) is resolved gradually and naturally into oxygen (O₂). This creates an extremely efficient cleaning process during which resolving "nascent Oxygen (O)" is produced. The nascent Oxygen strongly oxidises airborne particles to sterilise and deodorise the air.

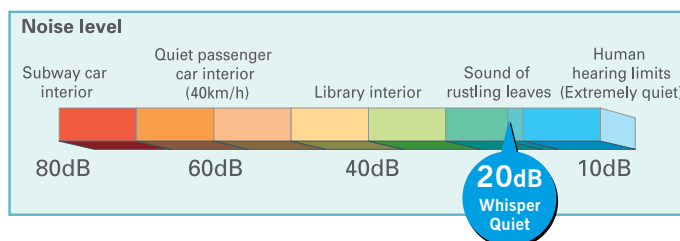


The consistency of ozone during ozone showering remains within health regulations. Inside of indoor unit 0.1ppm. Under the upper limit of acceptable range of ozone gas consistency at working environment. (Safety limit advised by Japan Society for Occupational Health) In the room 0.01ppm or less. Under the averaged consistency of ozone at the beach or forest areas.

Whisper Quiet Operation

Mitsubishi Electric have a long standing reputation for offering some of the quietest models in the industry.

The Deluxe MSZ-FB range is no exception. At only 20 dB(A) on its lowest fan speed, the MSZ-FB25VA is super quiet. You want to feel the warmth, not hear it!



Inverter MFZ-KA Series

COMPACT FLOOR CONSOLE

Thermostatically Controlled Upper and Lower Air Outlets Whisper Quiet Operation

This range is specifically designed to discreetly sit at floor level, making them ideal replacements for traditional floor mounted heating appliances such as night-store heaters.

The slim-line range features independently controllable upper and lower air outlets ensuring optimum air distribution to guarantee warm feet! A comprehensive deodorising and air purifying filter system will ensure healthier and cleaner air. All this is packed in to a compact floor design with the whisper quiet performance that you have come to expect from Mitsubishi Electric.



Dimensions (W x D x H): 700 x 200 x 600mm

MFZ-KA Model Range

Full specifications on page 17

MFZ-KA25VA (MFZ-KA25VA + SUZ-KA25VA)

Cooling Capacity: 2.5 (0.9~3.4) kW

Heating Capacity: 3.4 (0.9~5.1) kW



MFZ-KA35VA (MFZ-KA35VA + SUZ-KA35VA)

Cooling Capacity: 3.5 (0.9~3.9) kW

Heating Capacity: 4.0 (0.9~6.2) kW

MFZ-KA50VA (MFZ-KA50VA + SUZ-KA50VA)

Cooling Capacity: 4.8 (0.9~5.4) kW

Heating Capacity: 6.0 (0.9~7.9) kW

Mitsubishi Electric Floor Console Heat Pumps are also available as a **HYPERCORE**® MFZ-FB50 High Performance Heat Pump. www.hypercore.co.nz

Features

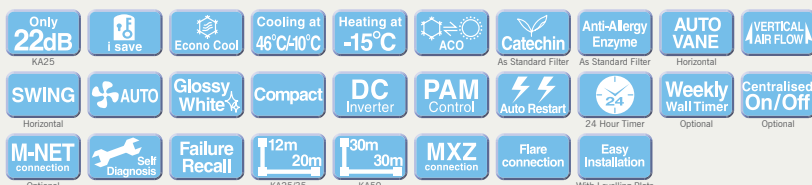
HEAT PUMP



Optional*:
PAR-21MAA
7 Day Timer



Infra Red Remote Controller



For further information on these features; view page 13 or visit: www.mitsubishi-electric.co.nz

Outdoor Units



SUZ-KA25/35VA

Dimensions (WxDxH)
800 x 285 x 550mm

SUZ-KA50VA

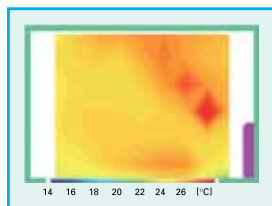
Dimensions (WxDxH)
840 x 330 x 850mm



Maximum Heat Output, Optimum Air Distribution

Perfect room temperatures at any time are achieved through dual top and bottom air flow with thermostatically controlled vanes to eliminate cool draughts whilst heating.

Mitsubishi Electric Inverter Control allows optimum comfort conditions to be achieved in the shortest period of time. This is vital when outdoor temperatures drop below freezing point or when the unit is first turned on.



Unique Energy Saving Features

"i-save" Mode

With this function, settings including temperature, fan speed, and airflow direction for both cooling and heating operation can be saved simultaneously. This function can be used to quickly return to your preferred settings. The "i-save" mode can be used as an energy saving function. If the stored "i-save" settings are 2-3°C cooler than the normal temperature setting when activated, the room will be set to the cooler temperature. When the room is reoccupied the button can be pressed to return to the original settings.

Econo Cool

This energy saving function can be selected in cooling mode. The temperature is automatically set to 2°C higher, while the airflow is switched to a swing flow. This airflow pattern feels cooler than constant airflow, allowing reduced energy consumption.



Whisper Quiet Operation

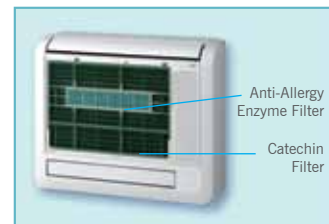
Mitsubishi Electric have a long standing reputation for offering some of the quietest models in the industry. The MFZ-KA range is no exception. At only 22 dB(A) on its lowest fan speed, the MFZ-KA25 is super quiet. You want to feel the warmth, not hear it!



Cleaner and Healthier Air

The combination of Catechin + Anti-Allergy Enzyme Filters ensure effective deodorisation, active filtering and the dramatic reduction of common allergens and bacteria. This is the key to cleaner and healthier air.

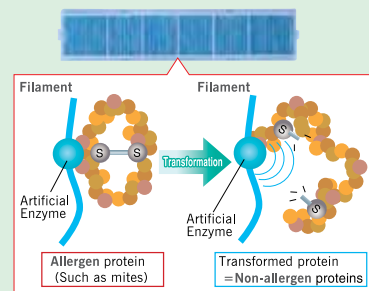
In addition to the "Catechin Filter" with deodorising effect, the "Anti-Allergy Enzyme Filter" traps dust mites and their droppings, pollen and other allergens on the filter filament, then decomposes them with artificial enzymes.*2 What's more, a sterilising agent combats bacterial and viral effects, all in all supporting a cleaner and healthier air supply.



*2 : Confirmed by the Japan Spinners Inspecting Foundation. Test numbers 007715-1, 007715-2. / Confirmed by Shinshu University.

"Anti-Allergy Enzyme Filter" mechanism

1. Artificial enzyme catalyst on the filament traps the allergens.
2. The artificial enzyme catalyst helps the chemical reaction with Oxygen and severs the S-S bonds.*3
3. Proteins with severed S-S bonds are no longer allergen proteins.



*3 : Mites and other allergen protein consist of sulphur atoms (S) that have bonded together.

Auto Change Over Function

When the desired temperature is reached, the system automatically switches between cooling and heating modes. The selected room temperature can be maintained without user intervention.

For example, when it's frosty in the early morning the unit will operate on heating to maintain a set point of 22°C in heating mode. When the sun rises the unit can switch to cooling to maintain the 22°C set temperature.

Guaranteed Heating Performance to -15°C

Not all heat pumps perform when they are needed most. Our range is guaranteed to effectively provide heating on those cold nights or mornings when you really need it.

Trouble-Free Installation and Maintenance

To install the indoor unit, position with our original installation plate then set the unit in place. Easy levelling work prevents any harm to wall surfaces. Generous pipe length, up to 30 metres*4, eliminates worries about outdoor unit distance. Loaded with automatic diagnosis function, fault recall mode and other sophisticated aids, troubleshooting is immediate though problems are rare.



*4 : MFZ-KA50VA

Inverter SLZ-KA Series

COMPACT CEILING CASSETTE

The Perfect Size Attractive and Inconspicuous Choice of Infra Red or Wired

The SLZ-KA Series is perfect for both residential and small business applications as it offers energy efficient inverter technology and quiet operation.

The compact size of this range is ideal for installation in offices with ceiling tiles, while the lightweight design helps to make installation easier and more convenient.



Dimensions (W x D x H): 570 x 570 x 235 mm
(Grille: 650 x 650 x 20mm)

SLZ-KA Model Range

Full specifications on page 18



SLZ-KA25VA (SLZ-KA25VA + SUZ-KA25VA)

Cooling Capacity: 2.5 (0.9~3.2) kW
Heating Capacity: 3.0 (0.9~4.5) kW



SLZ-KA35VA (SLZ-KA35VA + SUZ-KA35VA)

Cooling Capacity: 3.5 (1.0~3.9) kW
Heating Capacity: 4.0 (0.9~5.0) kW

SLZ-KA50VA (SLZ-KA50VA + SUZ-KA50VA)

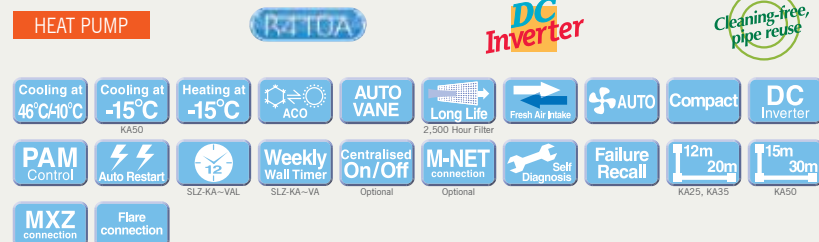
Cooling Capacity: 4.6 (1.1~5.2) kW
Heating Capacity: 5.0 (0.9~6.5) kW

Choice of controller

SLZ-KA~VAL : Includes Wireless Remote Controller.

SLZ-KA~VA : Includes Wired PAR-21MAA 7 Day Timer.

Features



For further information on these features; view page 13 or visit: www.mitsubishi-electric.co.nz

Outdoor Units



SUZ-KA25/35VA
Dimensions (WxDxH)
800 x 285 x 550mm

SUZ-KA50VA
Dimensions (WxDxH)
840 x 330 x 850mm



Which Heat Pump Will I Need?

HEATING SIZING CHART GUIDE

Use this guide to give you an approximate unit size.

Units should not be purchased without an in-home quote being completed by a qualified Mitsubishi Electric Authorised Dealer. Every home is as individual as its owner. The key to selecting the right heat pump for heating your home is to choose the correct unit size. Choosing the wrong unit could cost you more in power consumption. You can use this guide to give you an approximate unit size, but the correct calculation needs to be carried out by a qualified installer.

New or Well Insulated House - Guide Only:

Room Size Calculation								M-Series Inverter			S-Series Inverter	
Room Size		Ceiling Height		Room Volume		Room Size Factor		kW Heating	High Wall	Deluxe High Wall	Compact Floor Console	Ceiling Cassette
4x3m	x	2.4m	=	28.8m³	x	55watts per m³	=	1.6 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA*
4x4m	x	2.4m	=	38.4m³	x	55watts per m³	=	2.1 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA*
4x5m	x	2.4m	=	48.0m³	x	55watts per m³	=	2.6 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA
5x5m	x	2.4m	=	60.0m³	x	55watts per m³	=	3.3 kW	MSZ-GE25VA	MSZ-FB25VA	MFZ-KA25VA	SLZ-KA35VA
6x5m	x	2.4m	=	72.0m³	x	55watts per m³	=	4.0 kW	MSZ-GE33VA	MSZ-FB35VA	MFZ-KA35VA	SLZ-KA35VA
6x6m	x	2.4m	=	86.4m³	x	55watts per m³	=	4.7 kW	MSZ-GE42VA	MSZ-FB50VA	MFZ-KA50VA	SLZ-KA50VA
6x7m	x	2.4m	=	100.8m³	x	55watts per m³	=	5.5 kW	MSZ-GE50VA	MSZ-FB50VA	MFZ-KA50VA	
7x7m	x	2.4m	=	117.6m³	x	55watts per m³	=	6.5 kW	MSZ-GE60VA			
7x8m	x	2.4m	=	134.4m³	x	55watts per m³	=	7.4 kW	MSZ-GE71VA			
8x8m	x	2.4m	=	153.6m³	x	55watts per m³	=	8.4 kW	MSZ-GE80VA			

Note: * Higher rated unit for application, but can be used.

Cold Damp House or Lots of Glass - Guide Only:

Room Size Calculation									M-Series Inverter			S-Series Inverter
Room Size		Ceiling Height		Room Volume		Room Size Factor		kW Heating	High Wall	Deluxe High Wall	Compact Floor Console	Ceiling Cassette
4x3m	x	2.4m	=	28.8m³	x	65watts per m³	=	1.9 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA*
4x4m	x	2.4m	=	38.4m³	x	65watts per m³	=	2.5 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA
4x5m	x	2.4m	=	48.0m³	x	65watts per m³	=	3.1 kW	MSZ-GE25VA	MSZ-FB25VA	MFZ-KA25VA	SLZ-KA25VA
5x5m	x	2.4m	=	60.0m³	x	65watts per m³	=	3.9 kW	MSZ-GE33VA	MSZ-FB35VA	MFZ-KA35VA	SLZ-KA35VA
6x5m	x	2.4m	=	72.0m³	x	65watts per m³	=	4.7 kW	MSZ-GE42VA	MSZ-FB50VA	MFZ-KA50VA	SLZ-KA50VA
6x6m	x	2.4m	=	86.4m³	x	65watts per m³	=	5.6 kW	MSZ-GE50VA	MSZ-FB50VA	MFZ-KA50VA	
6x7m	x	2.4m	=	100.8m³	x	65watts per m³	=	6.5 kW	MSZ-GE60VA			
7x7m	x	2.4m	=	117.6m³	x	65watts per m³	=	7.6 kW	MSZ-GE71VA			
7x8m	x	2.4m	=	134.4m³	x	65watts per m³	=	8.7 kW	MSZ-GE80VA			

Note: * Higher rated unit for application, but can be used.

What type of unit is best suited for your environment.

Mitsubishi Electric Heat Pumps / Air Conditioners are manufactured with various indoor unit options: Wall-Mounted, Floor Console and Ceiling Cassette Types. Each type of indoor unit has features and advantages depending on your own particular application.



Wall-mounted: The most popular residential unit choice. As well as taking up no floor space, this unit offers extremely quiet operation (19dB(A): MSZ-GE25/33VA), the quietest in the industry.

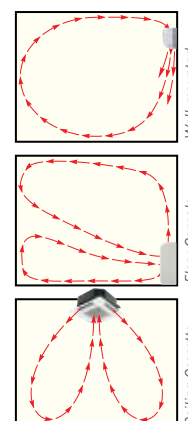


Compact Floor Console: The floor mounted units are designed with heating applications in mind. They are ideal for space heater or gas fire/fireplace replacement.



Ceiling Cassette: The ceiling mounted units take up no floor space. These units have four way air direction and adjustable air flow patterns. These units are more suited to larger floor areas.

Other types are available, such as Ceiling Concealed (Ducted) and Multi-Split Systems where many indoor units can be connected to one outdoor. For more information on these please visit: www.mitsubishi-electric.co.nz



Wall-mounted

Floor Console

Ceiling Cassette



Mitsubishi Electric Quality

PAR-21MAA 7 DAY WALL TIMER (Optional)

Wake up or come home to optimal temperatures whilst conserving energy!

The controller allows your system to be programmed to maintain optimal temperature levels during the times when you are likely to be in the room. In the periods where you are unlikely to be there (such as during work hours or sleep time), the temperature can be set back to a minimum holding temperature instead of turning the system completely off.

Turning a system on and off typically uses the most energy because the system has to heat a room starting from a very low temperature. By maintaining a minimum holding temperature Mitsubishi Electric inverter technology saves you energy as the temperature only needs to be raised by a couple of degrees.

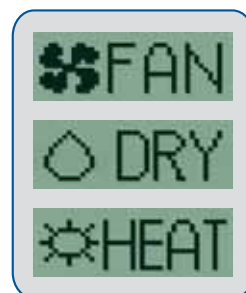
Most air conditioning systems come with a 24 hour timer on the remote controller. This means you can only set the system to automatically turn on and then off once within a 24 hour period. This needs to be manually reactivated each time. The Mitsubishi Electric 7 day timer allows you to program up to 8 separate Start/Stop patterns per day over a 7 day period.

For example:

- Between 10pm till 6am set temperature to 18°C
- Between 6am and 9am set temperature to 21°C
- Between 9am and 5.30pm set temperature to 18°C
- Between 5.30pm and 10pm set temperature to 21°C
- Between 10pm and 6am set temperature to 18°C

Industry First! Multi-language Display

The display can be set to 8 different languages.



The new clear and precise display is easy to understand for any user.



Operation Control Function.

Limiting the set temperature range of the air conditioning operation.

The setting of the upper and lower limit temperature is possible. This conserves energy by preventing excessive cooling and heating.

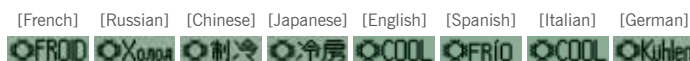
Automatic off timer - For turning off the air conditioning operation.

The system can be switched off automatically thereby preventing wasteful operation. The set time can be changed from 30 minutes to 4 hours at 30-minute intervals.

Operation lock - This prevents random modification of settings.

Two lock functions are available:

1. Lock all buttons.
2. Lock all buttons other than ON/OFF button.



FEATURES

Energy Saving			
DC Inverter	PAM Control	AREA Setting	Econo Cool <i>more info page 6, 8</i>
<i>Advanced Energy Saving</i> i-see Temperature Sensor <i>more info page 8</i>		i-save <i>more info page 6, 8</i>	
Comfort			
Sound Level at 19dBA	Auto Vane	Area Setting <i>more info page 8</i>	Vertical Airflow <i>more info page 10</i>
Swing Vertical Vane	Swing Horizontal Vane	Wide Airflow <i>more info page 5</i>	Long Airflow <i>more info page 5</i>
Fresh Air			
Plasma Duo Filter System <i>more info page 8</i>	Anti Mold Air Cleaning Filter	Anti Allergy Enzyme Filter	Healthy Catechin Filter
Nano Platinum Filter		Long Life Filter	Self Cleaning Ozone Shower
Design			
Flat Panel Style	Compact Size	Pure White Finish	Glossy White Finish
Convenience			
24 Hour Timer on Remote	7 Day Wall Timer <i>more info page 13</i>	7 Day Hand Held Timer <i>more info page 6</i>	Central On/Off Controller
M-NET Connection AG-150 Controller	Guaranteed Heating at -15°C	Guaranteed Cooling at -10°C	Wide Range Cooling Temperature
Powerful	Auto Change Over	Auto Restart	
Installation and Maintenance			
Cleaning Free Pipe Reuse	Failure Recall Function	Easy Installation with Leveling Plate	Quick Clean Body
Easy and Simple Flare Connection	Long Length Piping	Multi Split Connection for MXZ Series	Self Diagnosis Function



Mitsubishi Electric Quality

OPTIONAL AND SPARE PARTS

Filters, Drain Sockets and Quick Clean Kit

Catechin Air Filter / Deodorising Filter

Part No.	Model
E12 D68 100	MSZ-GE25/33/42/50VA*

Nano Platinum Filter

Part No.	Model
E12 F28 100	MSZ-GE60/71/80VA*

Air Filter

Part No.	Model
E12 C86 100	MSZ-FB25/35/50VA (left)
E12 C85 100	MSZ-FB25/35/50VA (right)

Deodorising Filter

Part No.	Model
MAC-307FT-E	MSZ-FB25/35/50VA

Anti Allergy Enzyme Filter †

Part No.	Model
MAC-408FT-E	MSZ-GE25/33/42/50VA
MAC-2300FT-E	MSZ-GE60/71/80VA
MAC-417FT-E	MSZ-FB25/35/50VA
MAC-415FT-E	MFZ-KA25/35/50VA

† Can be used for about 1 year if washed regularly

Drain Socket

Part No.	Model
E12 F28 704	MUZ-GE60/70/80VA
E12 838 704	MUZ-FB25/35/50VA
MAC-851DS	SUZ-KA25/35VA
E02 817 704	SUZ-KA50VA

Quick Clean Kit

Vacuum cleaner attachments for easy cleaning of your heat pump.

Part No.
MAC-093SS-E

* NOTE:

One (1) filter supplied per pack (Part No.).
Please order two (2) filters if required



MAC-093SS-E



DRAIN SOCKET

Timer and Centralised Controllers

PAR-21MAA 7-Day Timer

Wired Wall Remote Controller

The optional wired remote controller (PAR-21MAA*) has a weekly timer function enabling 8 separate pattern settings throughout a single day.

* Requires MAC-397IF-E adaptor



PAR-21MAA

Part No.	Model
69144	MSZ-GE25/33/42/50VA, MSZ-FB25/35/50VA, MFZ-KA25/35/50VA (Requires MAC-397IF-E)
69331A	MAC-397IF-E (MA & Contact Terminal Interface)

MAC-821SC-E

Centralised On/Off Remote Controller

An optional Centralised ON/OFF Controller (MAC-821SC-E*) can also be incorporated to regulate all connected units in your home (and enabling ON/OFF selection and operation status confirmation from one single controller).

* Requires MAC-397IF-E adaptor



MAC-821SC-E

Part No.	Model
69144	MSZ-GE25/33/42/50/60/71/80VA, MSZ-FB25/35/50VA, MFZ-KA25/35/50VA, SLZ-KA25/35/50VA(L) (Requires MAC-397IF-E)
69331A	MAC-397IF-E (MA & Contact Terminal Interface)

AG-150 Central Controller

With Touch Screen / Web Server Functions

Mitsubishi Electric can also offer the advanced AG-150 central controller. The colour touch screen allows user friendly control of the entire air conditioning system. The system can also be accessed from a computer using a web browser.



AG-150

Features can be added to the Controller by installing Software packages to suit your application. These Software Packages include 365 day Time Scheduling, Auto Alarming via Email when a fault occurs and Power Logging for multiple tenancy applications. The controller also has external inputs and outputs for Fresh Air Fan Start up and Fire Shutdown control. All of these features give you a very universal controller.



Web Screen Views

INVERTER HIGH WALL

For details refer page 4 - 6

MSZ-GE SERIES


MSZ-GE25/33/42/50VA

- Compact Flat Panel Design
- New Zealand's Quietest at 19 dB(A)**
- Catechin and Anti-Allergy Enzyme Filters***
- Nano Platinum and Anti-Allergy Enzyme Filters****
- Energy-saving "Econo Cool" / "I-save" Mode
- Powerful Mode****
- Wide and Long Air Flow****
- Auto Change Over
- Quick-clean Design***
- 24 Hour Timer
- Programmable 7 Day Hand Held Timer****
- Optional PAR-21MAA 7 Day Wired Wall Timer
- Longer Piping Length / Guaranteed Heating Performance down to -15°C

ENERGY RATING	6.0	6.0	5.5	4.5	6.0	5.5	4.5
MODEL	MSZ-GE25	MSZ-GE33	MSZ-GE42	MSZ-GE50	MSZ-GE60	MSZ-GE71	MSZ-GE80
COOL	2.5kW 4.46 EER 19 dB(A)*	3.3kW 3.63 EER 19 dB(A)*	4.2kW 3.33 EER 26 dB(A)*	5.0kW 3.05 EER 28 dB(A)*	6.0kW 3.40 EER 29 dB(A)*	7.1kW 3.33 EER 30 dB(A)*	8.0kW 3.12 EER 30 dB(A)*
HEAT	3.2kW 4.38 COP 19 dB(A)*	4.0kW 3.88 COP 19 dB(A)*	5.4kW 3.51 COP 26 dB(A)*	5.8kW 3.52 COP 28 dB(A)*	6.8kW 3.84 COP 29 dB(A)*	8.1kW 3.83 COP 30 dB(A)*	9.0kW 3.54 COP 30 dB(A)*

*Sound Levels rated at lowest fan speed.

**For MSZ-GE25/35VA, as at 1st May 2009.

***For MSZ-GE25/35/50VA.

****For MSZ-GE60/71/80VA.


MSZ-GE60/71/80VA

TYPE		High Wall							
		Inverter							
		Heat Pump							
MODEL	MODEL NAME	MSZ-GE25VA	MSZ-GE33VA	MSZ-GE42VA	MSZ-GE50VA	MSZ-GE60VA	MSZ-GE71VA	MSZ-GE80VA	
	INDOOR UNIT	MSZ-GE25VA	MSZ-GE33VA	MSZ-GE42VA	MSZ-GE50VA	MSZ-GE60VA	MSZ-GE71VA	MSZ-GE80VA	
		MUZ-GE25VA	MUZ-GE33VA	MUZ-GE42VA	MUZ-GE50VA	MUZ-GE60VA	MUZ-GE71VA	MUZ-GE80VA	
COOL	Capacity	Rated	[kW]	2.5	3.3	4.2	5.0	6.0	8.0
	Min-Max	[kW]	1.1 - 3.5	1.4 - 3.9	0.9 - 4.8	1.4 - 5.4	1.5 - 7.5	2.4 - 8.7	2.4 - 9.2
	Input	Rated	[kW]	0.56	0.91	1.26	1.64	1.76	2.13
	Min-Max	[kW]	0.21 - 1.15	0.32 - 1.56	0.16 - 1.94	0.32 - 2.06	0.28 - 2.38	0.57 - 3.37	0.57 - 3.58
	EER	4.46	3.63	3.33	3.05	3.40	3.33	3.12	
	Star Rating	6.0	6.0	5.5	4.5	6.0	5.5	4.5	
	Sound Level	In (Quiet-SHi*)	[dB(A)]	19-21-29-36-42	19-22-30-36-43	26-30-35-40-46	28-33-38-44-49	29-37-41-45-49	30-37-41-45-49
	Out (SPL*)	[dB(A)]	46	47	50	54	55	55	55
	Rated Current (In+Out)	[A]	2.9	4.3	5.8	7.4	7.8	9.4	11.3
HEAT	Max. Current	[A]	7.4	8.6	10	13.0	14.5	16.6	16.6
	Air Volume In (SHi*)	[L/s]	188.3	211.7	211.7	251.7	305.0	298.3	298.3
	Capacity	Rated	[kW]	3.2	4.0	5.4	5.8	6.8	8.1
	Min-Max	[kW]	1.3 - 4.5	1.4 - 4.8	1.4 - 6.0	1.4 - 7.2	2.0 - 9.3	2.2 - 9.9	2.2 - 11.1
	Input	Rated	[kW]	0.73	1.03	1.54	1.65	1.77	2.11
	Min-Max	[kW]	0.26 - 1.20	0.34 - 1.55	0.27 - 2.04	0.32 - 2.49	0.46 - 2.94	0.52 - 3.25	0.52 - 3.65
	COP	4.38	3.88	3.51	3.52	3.84	3.83	3.54	
	Star Rating	6.0	6.0	5.0	5.0	6.0	6.0	5.0	
	Sound Level	In (Quiet-SHi*)	[dB(A)]	19-21-29-36-42	19-22-30-36-43	26-30-35-40-46	28-33-37-43-48	29-37-41-45-49	30-37-41-45-49
	Out (SPL*)	[dB(A)]	48	48	51	56	55	55	55
EXT. PIPE	Rated Current (In+Out)	[A]	3.8	4.8	7.0	7.4	7.8	9.5	11.2
	Max. Current	[A]	7.4	8.6	10	13.0	14.5	16.6	16.6
	Air Volume In (SHi*)	[L/s]	191.7	191.7	218.3	241.7	305.0	298.3	298.3
Controller		Infra Red Remote (Optional: PAR-21MAA)				Infra Red Remote with 7 Day Timer			
Power Supply		(Powered from outdoor unit)				230 / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)	[mm]	798 x 232 x 295				1,100 x 238 x 325		
	Weight	[kg]	10				16		
OUTDOOR	Dimensions (WxDxH)	[mm]	800 x 285 x 550	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	840 x 330 x 880	840 x 330 x 880	840 x 330 x 880
	Weight	[kg]	30	30	36	54	50	53	53
	Sound Level (SPL*/Power)	[dB(A)]	46-48 / 58-59	47-48 / 61-62	50-51 / 62-64	54-56 / 69	55 / 69	55 / 69	55 / 69
EXT. PIPE	Diameter (Liquid/Gas)	[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length/Height†	[m]	20 / 12	20 / 12	20 / 12	30 / 15	30 / 15	30 / 15	30 / 15
	Chargeless	[m]	7	7	7	7	10	10	10
OPERATION RANGE Outdoor	Cooling	[°C]	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46
	Heating	[°C]	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24

DELUXE INVERTER HIGH WALL

For details refer page 7 - 8

MSZ-FB SERIES


MSZ-FB25/35/50VA

- Compact Flat Panel Design
- Super Quiet Operation at just 20 dB(A)**
- Energy Saving “i-see” Temperature Sensor
- Long Life Washable Plasma Deodorising Filter
- Long Life Washable Plasma Air Purifying Filter
- Self Cleaning “Ozone Shower”
- Quick Clean Design
- Energy-saving “Econo Cool”
- Auto Change Over
- 24 Hour Timer
- Optional PAR-21MAA 7 Day Wired Wall Timer
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

Plasma Duo
Filter Systems


i-see Sensor

TYPE				Deluxe High Wall			
				Inverter			
				Heat Pump			
MODEL	MODEL NAME			MSZ-FB25VA	MSZ-FB35VA	MSZ-FB50VA	
	INDOOR UNIT			MSZ-FB25VA	MSZ-FB35VA	MSZ-FB50VA	
	OUTDOOR UNIT			MUZ-FB25VA	MUZ-FB35VA	MUZ-FB50VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	5.0	
		Min-Max	[kW]	1.1 - 3.5	1.1 - 4.1	0.8 - 5.8	
	Input	Rated	[kW]	0.53	0.89	1.60	
		Min-Max	[kW]	0.26 - 0.97	0.26 - 1.12	0.26 - 2.45	
	EER			4.76	3.93	3.13	
	Star Rating			6.0	6.0	5.0	
	Sound Level	In (Low-SHi*)	[dB(A)]	20-29-36-42	20-29-36-43	29-39-45-52	
		Out (SPL*)	[dB(A)]	46	47	54	
	Rated Current (In+Out)			[A]	2.6	4.1	7.1
	Max. Current			[A]	10	10	16
Air Volume In (SHi*)			[L/s]	187	187	247	
HEAT	Capacity	Rated	[kW]	3.2	4.0	6.0	
		Min-Max	[kW]	1.5 - 5.5	1.5 - 6.0	0.9 - 7.8	
	Input	Rated	[kW]	0.66	0.90	1.64	
		Min-Max	[kW]	0.48 - 1.90	0.48 - 1.90	0.48 - 2.95	
	COP			4.89	4.44	3.66	
	Star Rating			6.0	6.0	5.5	
	Sound Level	In (Low-SHi*)	[dB(A)]	20-29-36-43	21-29-36-44	27-37-43-50	
		Out (SPL*)	[dB(A)]	46	50	56	
	Rated Current (In+Out)			[A]	3.1	4.1	7.3
	Max. Current			[A]	10	10	16
Air Volume In (SHi*)			[L/s]	202	208	247	
Controller				Infra Red Remote (Optional: PAR-21MAA)			
Power Supply	(Powered from outdoor unit)			230 / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	798 x 257 x 295			
	Weight		[kg]	12			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	
	Weight		[kg]	36	36	55	
	Sound Level (SPL*/Power)		[dB(A)]	46 / 59	47-50 / 60-63	54-56 / 67-69	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 15	
	Chargeless		[m]	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-10 / +46	
	Heating		[°C]	-15 / +24	-15 / +24	-15 / +24	

ENERGY RATING	6.0	6.0	5.0
	6.0	6.0	5.5
MODEL	MSZ-FB25	MSZ-FB35	MSZ-FB50
COOL	2.5kW 4.76 EER 20 dB(A)*	3.5kW 3.93 EER 20 dB(A)*	5.0kW 3.13 EER 29 dB(A)*
HEAT	3.2kW 4.89 COP 20 dB(A)*	4.0kW 4.44 COP 21 dB(A)*	6.0kW 3.66 COP 27 dB(A)*

*Sound Levels rated at lowest fan speed.

**For MSZ-FB25VA, as at 1st May 2009.

HYPERCORE® High Performance

If you live in an area with high humidity and low temperatures you may need to consider upgrading to a HyperCore® High Performance Heat Pump. HyperCore® has all of the technology hidden in the standard Mitsubishi Electric Inverter Heat Pump but additionally, is the ONLY heat pump available in New Zealand that guarantees it's full rated capacity at all temperatures from +7°C to -15°C ~ and all temperatures in between. So no matter how cold it is in your region ~ +2°C, or -2°C or even -15°C ~ HyperCore® Heat Pumps will not lower their heating capacity regardless of the outdoor temperature.

Ask for a HyperCore® brochure or go to:

www.hypercore.co.nz

*Sound Level: (SHi = Super High).

(Quiet-SHi*) Quiet / Low / Medium / High / Super High.

(Low-SHi*) Low / Medium / High / Super High.

(Low-Hi*) Low / Medium / High.

Out SPL: Outdoor Sound Pressure Level measured under rated operating frequency.

Note:

1. Rating Conditions (AS / NZS 3823).

Cooling – Indoor: 27°C DB, 19°C WB. Outdoor: 35°C DB

Heating – Indoor: 20°C DB Outdoor: 7°C DB, 6°C WB.

Refrigerant piping length (one way): 5 m

2. Guaranteed operating range: see specifications table.

3. Dry function will not work when the room temperature is below 13°C

EER = Energy Efficiency Ratio

COP = Coefficient of Performance

Colour: Heat pump units shown may not be colour accurate, please ensure you view an actual unit for colour matching.

† Maximum length is inclusive of height differential. i.e. (20/12) means the pipe can be 12m high and 8m across for a total length of 20m.

INVERTER COMPACT FLOOR CONSOLE




For details refer page 9 - 10

MFZ-KA SERIES



MFZ-KA25/35/50VA

- Slim Line Compact Design
- Quiet Operation: 22 dB(A)**
- "I-save" Mode
- Catechin and Anti-Allergy Enzyme Filters
- Energy-saving "Econo Cool"
- Swing and Auto Modes
- Auto Change Over
- 24 Hour Timer
- Optional PAR-21MAA 7 Day Wired Wall Timer
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

ENERGY RATING	  		
	6.0	4.5	4.5
MODEL	MFZ-KA25	MFZ-KA35	MFZ-KA50
COOL	2.5kW	3.5kW	4.8kW
	4.31 EER	3.21 EER	3.10 EER
HEAT	3.4kW	4.0kW	6.0kW
	4.07 COP	3.64 COP	3.23 COP

*Sound Levels rated at lowest fan speed.

**For MFZ-KA25VA, as at 1st May 2009.

TYPE				Compact Floor Console			
				Inverter			
				Heat Pump			
MODEL	MODEL NAME			MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA	
	INDOOR UNIT			MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA	
	OUTDOOR UNIT			SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	4.8	
		Min-Max	[kW]	0.9 - 3.4	0.9 - 3.9	0.9 - 5.4	
	Input	Rated	[kW]	0.58	1.09	1.55	
		Min-Max	[kW]	0.19 - 0.94	0.19 - 1.25	0.19 - 1.98	
	EER			4.31	3.21	3.1	
	Star Rating			6.0	4.5	4.5	
	Sound Level	In (Low-SHi*)	[dB(A)]	22-27-32-37	23-28-33-38	32-35-39-43	
		Out (SPL*)	[dB(A)]	46	47	53	
	Rated Current (In+Out)			[A]	2.80	5.0	7.0
	Max. Current			[A]	6.4	9.4	16.2
Air Volume In (SHi*)			[L/s]	145	152	178	
HEAT	Capacity	Rated	[kW]	3.4	4.0	6.0	
		Min-Max	[kW]	0.9 - 5.1	0.9 - 6.2	0.9 - 7.9	
	Input	Rated	[kW]	0.84	1.10	1.86	
		Min-Max	[kW]	0.19 - 1.91	0.19 - 2.24	0.19 - 2.81	
	COP			4.07	3.64	3.23	
	Star Rating			6.0	5.0	4.0	
	Sound Level	In (Low-SHi*)	[dB(A)]	22-27-32-37	25-28-33-38	32-35-39-44	
		Out (SPL*)	[dB(A)]	46	48	55	
	Rated Current (In+Out)			[A]	4.0	5.0	8.5
	Max. Current			[A]	6.4	9.4	16.2
Air Volume In (SHi*)			[L/s]	152	158	197	
Controller				Infra Red Remote (Optional: PAR-21MAA)			
Power Supply	(Powered from outdoor unit)			230 / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	700 x 200 x 600			
	Weight		[kg]	14			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	
	Weight		[kg]	33	37	53	
	Sound Level (SPL*/Power)		[dB(A)]	46 / 59	47-48 / 61	53-55 / 68	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 30	
	Chargeless		[m]	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-10 / +43	
	Heating		[°C]	-15 / +24	-15 / +24	-15 / +24	

HYPERCORE® High Performance

If you live in an area with high humidity and low temperatures you may need to consider upgrading to a HyperCore® High Performance Heat Pump. HyperCore® has all of the technology hidden in the standard Mitsubishi Electric Inverter Heat Pump but additionally, is the ONLY heat pump available in New Zealand that guarantees it's fully rated capacity at all temperatures from +7°C to -15°C ~ and all temperatures in between. So no matter how cold it is in your region ~ +2°C, or -2°C or even -15°C ~ HyperCore® Heat Pumps will not lower their heating capacity regardless of the outdoor temperature.

Ask for a HyperCore® brochure or go to:

www.hypercore.co.nz

INVERTER COMPACT CEILING CASSETTE

For details refer page 11

SLZ-KA SERIES



SLZ-KA25/35/50VA(L)

- Compact Design
- Light Weight Design
- Long-life Filter
- Fresh Air Intake
- Smudge-free Airflow
- Auto Change Over
- Auto Vane
- 12 Hour Timer (Wireless)**
- PAR-21MAA 7 Day Wired Wall Timer***
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

ENERGY RATING	6.0	5.0	3.5
	5.0	5.0	4.0
MODEL	SLZ-KA25	SLZ-KA35	SLZ-KA50
COOL	2.5kW	3.5kW	4.6kW
	3.62 EER	3.30 EER	2.82 EER
HEAT	3.0kW	4.0kW	5.0kW
	3.61 COP	3.64 COP	3.23 COP
	28 dB(A)*	29 dB(A)*	30 dB(A)*

*Sound Levels rated at lowest fan speed.

**SLZ-KA25/35/50VAL.

***SLZ-KA25/35/50VA.

TYPE				High Wall			
				Inverter			
				Heat Pump			
MODEL	MODEL NAME			SLZ-KA25VA(L)	SLZ-KA35VA(L)	SLZ-KA50VA(L)	
	INDOOR UNIT			SLZ-KA25VA(L)	SLZ-KA35VA(L)	SLZ-KA50VA(L)	
	OUTDOOR UNIT			SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	4.6	
		Min-Max	[kW]	0.9 - 3.2	1.0 - 3.9	1.1 - 5.2	
	Input	Rated	[kW]	0.69	1.06	1.63	
		Min-Max	[kW]	0.25 - 1.00	0.27 - 1.33	0.49 - 2.13	
	EER			3.62	3.30	2.82	
	Star Rating			6.0	5.0	3.5	
	Sound Level	In (Low-Hi*)	[dB(A)]	28-31-37	29-33-38	30-34-39	
		Out (SPL*)	[dB(A)]	46	47	53	
	Rated Current (In+Out)			[A]	3.40	4.90	7.40
	Max. Current			[A]	8.16	9.18	16.0
Air Volume In (Hi*)			[L/s]	167	183	183	
HEAT	Capacity	Rated	[kW]	3.0	4.0	5.0	
		Min-Max	[kW]	0.9 - 4.5	0.9 - 5.0	0.9 - 6.5	
	Input	Rated	[kW]	0.83	1.10	1.55	
		Min-Max	[kW]	0.17 - 1.36	0.25 - 1.46	0.39 - 3.36	
	COP			3.61	3.64	3.23	
	Star Rating			5.0	5.0	4.0	
	Sound Level	In (Low-Hi*)	[dB(A)]	28-31-37	29-33-38	30-34-39	
		Out (SPL*)	[dB(A)]	46	48	55	
	Rated Current (In+Out)			[A]	4.0	5.1	7.0
	Max. Current			[A]	8.16	9.18	16.0
Air Volume In (Hi*)			[L/s]	167	183	183	
Controller				~VAL: Infra Red Remote, ~VA: PAR-21MAA Wired Controller			
Power Supply	(Powered from outdoor unit)			230V / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	570 x 570 x 235 (Panel: 650 x 650 x 20)			
	Weight		[kg]	16.5 (Panel: 3)			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	
	Weight		[kg]	33	37	53	
	Sound Level (SPL*/Power)		[dB(A)]	46 / 59	47-48 / 61	53-55 / 68	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 30	
	Chargeless		[m]	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-15 / +43	
	Heating		[°C]	-15 / +24	-15 / +24	-15 / +24	

*Sound Level: (SHi = Super High).

(Quiet-SHi*) Quiet / Low / Medium / High / Super High.

(Low-SHi*) Low / Medium / High / Super High.

(Low-Hi*) Low / Medium / High.

Out SPL: Outdoor Sound Pressure Level measured under rated operating frequency.

Note:

1. Rating Conditions (AS / NZS 3823).

Cooling – Indoor: 27°C DB, 19°C WB. Outdoor: 35°C DB

Heating – Indoor: 20°C DB Outdoor: 7°C DB, 6°C WB.

Refrigerant piping length (one way): 5 m

2. Guaranteed operating range: see specifications table.

3. Dry function will not work when the room temperature is below 13°C

EER = Energy Efficiency Ratio

COP = Coefficient of Performance

Colour: Heat pump units shown may not be colour accurate, please ensure you view an actual unit for colour matching.

† Maximum length is inclusive of height differential. i.e. (20/12) means the pipe can be 12m high and 8m across for a total length of 20m.

YOUR GUARANTEE OF EXCELLENCE

This emblem is your assurance of the very best in technology and quality as it represents Mitsubishi Electric's continuing efforts in making our air conditioners the industry standard. Every Mitsubishi Electric air conditioner is a product of painstaking research, relentless testing, and a resolute determination to improve upon vital performance characteristics. As a result, our air conditioners have become more durable, less costly to operate, quieter, easy on installation and maintenance, and better able to distribute air evenly throughout any type of interior. This kind of commitment to quality enables our products to create remarkably pleasant environments that will ultimately make your life more comfortable.



5 YEAR WARRANTY

Mitsubishi Electric Air Conditioners / Heat Pumps come with a full 5 year parts, labour and compressor warranty. Warranty conditions apply. Please be aware of these conditions prior to purchasing this product.

THE BEST QUALITY YOU CAN RELY ON

Our quality assurance program guided by our stringent Quality Policy ensures confidence in all phases of the development process from design and manufacture, to the finished product.

BUYER BEWARE

The brand Mitsubishi Electric is not to be confused with the brand Mitsubishi Heavy Industries. Both brands may share the 3 red diamonds but are manufactured in completely different factories to completely different specifications.



All units line tested



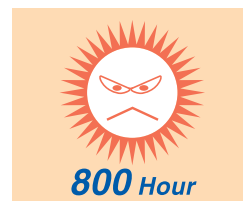
Sound test



Performance test



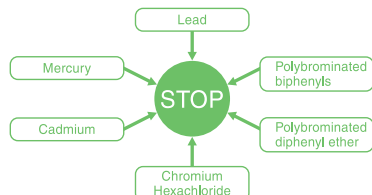
Endurance test



Heat stress test

COMFORT MEETS ECOLOGY

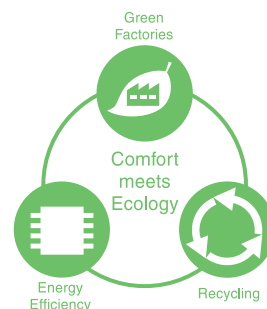
In every phase of air conditioner production, we have the earth in mind.



RoHS Standard

Six chemical substances we can do without

Mercury, cadmium and lead are among six hazardous substances, found in some products, restricted or banned by the European Union as of July 1, 2006. Mitsubishi Electric has developed a system to ensure quick and early compliance with the EU directive, and we are introducing a similar system to all our Asian operations as well.



Certificate Number
49385



Certificate Number
EC97J1227

Mitsubishi Electric Shizuoka Works acquired ISO 9001 certification under Series 9000 of the International Standard Organisation (ISO) based on a review of quality warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

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New publication effective **January 2011**. All features and specifications are subject to change and amendment at anytime. Where specifications are critical to design or pre-build we advise that you seek confirmation of accuracy from our product management team on (04) 560 9100.